

HUNGARY / Human and Animal Physiology. Skin.

T

Abs Jour : Rof Zhur - Biol., No 15, 1958, No. 70641

Author : Rajka, Odon; Korossy, Sandor; Gozony, Marianna
Inst : Not given
Title : The Pathomechanism of Itching in Urticaria

Orig Pub : Magyar tud. akad. Biol. es orv. tud. oszt. kozl., 1956,
Vol 7, No 1-3, 75-87

Abstract : No abstract given

Card 1/1

KOF OSSY, Sandor, dr.; GOZONY, Marianna.

Modified Furesz-Kubinyi method in determination of antibiotic sensitivity. Orv. hetil. 97 no.20:544-546 13 May 56

l. A Budapesti Istvan Korhaz Borosz. (foorvos; Rajka Odon dr.)
korz.

(ANTIBIOTICS, resist. & sensitivity
determ. by agar-plate method (Hun))

(AGAR
agar-plate test in determ. of antibiotic sensitivity (Hun))

Gozony, Marianne

The pathogenesis of urticarial pruritus. III. Quantitative evaluation of the effects of various drugs on morphine-induced pruritus. E. Rajka, S. Korosy, and Marianne Gozony (Stevens' Hosp., Budapest). *Dermatologica* 117, 91-107 (1958) (in German) (English summary); cf. C.A. 59, 11780.—Of 78 drugs, of various types, tested (3009 tests) 44 were found, in the majority of cases, to prevent the occurrence of exptl. morphine-induced, pruritus. In no case was 100% inhibition obtained. Henry B. Hastic

3
Med

GOZONY, Marianna

RAJKA, Odon, dr.; KOROSSY, Sandor, dr.; GOZONY, Marianna, dr.

Data on antigen (auto?) formation of the coccogenous complex and
staphylogenous sensitization mechanism. Borgoggy. vener. szemle
33 no.1: 7-19 Feb 57.

1. Koslemeny a budapesti Istvan-korhas borosztalyarol (foorvos:

Rajka, Odon, dr.).

(MICROCOCCUS PYGENES, immunol.

coccogenous complex antigen form. & staphylogenous
sensitization mechanism (Hun))

(ALLERGY

same)

GOZONY, MARIANNA

KOROSSY, Sander, dr.; GOZONY, Marianna

Experiences with the thrombocytopenia index of Storch
and Hoigne produced by Micrococcus pyogenes anatoxin in
coccogenous eczema. Orv. hetil. 98 no.28:761-763 14 July
57.

1. A Budapesti Istvan'korhaz borosztalyanak (foorvos:
Rajka, Odon, dr.) kosleménye.
(ECZEMA, immunol.

thrombopenia index determ. in coccogenous eczema
using Micrococcus pyogenes anatoxin as allergen (Hun))
(MICROCOCCUS PYOGENES
anatoxin as allergen in determ. of thrombopenia index
in coccogenous eczema (Hun))

ACTA MEDICA Sec 13 Vol 13/6 Dermatology June 59
1392. EXPERIENCES WITH A THROMBOCYTOPENIA TEST IN INFECTIOUS
ECZEMATOID DERMATITIS AFTER INJECTION OF STAPHYLOCOCCUS
ANATOXIN - Erfahrungen mit durch Staphylokokkus-Anatoxin ausgelöstem
Thrombozytopenie-Test bei kokkogenen Ekzemen - Korossy S. and
Gózonay M. Hautabt., Stephansspit, Budapest - ACTA ALLERG. (Kbh.)
1958, 12/1 (68-74) Tables 3

In 140 patients thrombocytopenia tests were made after injection of staphylococcus anatoxin. The test is said to be positive if the decrease of the number of thrombocytes is over 20% after one hour. Fifty-six of 72 infectious eczematoid dermatitis cases, i.e. 77.7%, yielded positive results. Only 7 out of 68 patients tested for control, i.e. 10.3%, could be said to be positive. The thrombocytopenia test was usually (in 25 out of 26 cases) positive within one hour after the injection of the antigen; therefore it is recommendable to perform the thrombocyte count after one hour. Changes in the pulse rate, the number of leucocytes and the qualitative blood picture showed no relation to the change in the thrombocyte count.

KOROSSY, Sandor, Dr.; GOZONY, Marianna

Examinations with staphylococcal anatoxin in patients with coccogenic eczema. Borgyogy. vener. szemle 12 no. 4-5:179-184 Aug-Oct 58.

I. Kozlemeny a Budapesti Istvan-korhaz borosztalyarol (Foorvos: Rajka Odon dr.)

(ECZEMA, etiol. & pathogen.

Micrococcus pyogenes infect., thrombocyte count after admin. of micrococcal anatoxin (Hun))

(MICROCOCCAL INFECTIONS, immunol.

thrombocyte count in eczema caused by Micrococcus pyogenes infect. after admin. of micrococcal anatoxin (Hun))

(BLOOD PLATELETS

same)

KOROSSY, Sandor; GOZONY, Marianna

Experiences with oral BCG therapy in chronic erythema and cutaneous tuberculosis. Byorgyogy. vener. szemle 12 no.6:239-241 Dec 58.

1. Kozlemeny a budapesti Istvan-korhaz borosztalyarol (Foorvos: Dr. Rajka Odon).

(TUBERCULOSIS, CUTANEOUS, ther.

BCG, oral admin. with isoniazid (Hun))

(ERYTHEMA, ther.

BCG, oral admin. with isoniazid in chronic erythema (Hun))

(ISONIAZID, ther. use

chronic erythema & cutaneous tuberc., with oral BCG (Hun))

(BCG VACCINATION

oral BCG ther. with isoniazid in chronic erythema & cutaneous tuberc. (Hun))

KOROSSY, S.; BOSZORMENYI, J.; GOZONY, M.; FEHER, E.

Studies on psoriasis patients for the clarification of the role of tonsillar focus and 8-hemolytic Streptococcus. Borgyogy. vener.
szemle 13 no.2:75-85 Apr 59.

1. Kozlemeny a budapesti Istvan-morhaz borosztalyarol (Fodorvos:
Dr. Rajka Odon es a Human Oltoanyagtermelo es Kutato Intezetbol
(Igasgato: Dr. Veres Gabor).

(PSORIASIS, etiol. & pathogen.

etiol. role of beta hemolytic streptococci & tonsillar
foci (Hun))

(TONSILS, microbiol.

etiol. role of beta hemolytic streptococci & tonsillar
foci in psoriasis (Hun))

KOROSSY, S., Dr.; DOBIAS, Gy., Dr.; BACKHAUSZ, R., Dr.; GOZONY, M.,

Data on the staphylococcal anatoxin therapy of patients with coccogenous eczem, Orv. hetil. 100 no.4:134-139 25 Jan 59.

1. A Budapesti Istvan Borbostalyanak (foorvos: Rajka Odon dr.) es a Human Oltoanyagtermelo es Kutato Intezet (igazgato: Veres Gabor dr.) kozlemenye.

(ECZEMA, ther.

Micrococcus pyogenes anatoxin in microbial eczema (Hun))
(MICROCOCCUS PYOGENES

anatoxin in ther. of microbial eczema (Hun))

KOROSSY, Sandor; GOZONY, Marianna

Experiences in studies on antibiotic sensitivity in microbial skin processes in the years 1953-1959

1. Kozlemeny a budapesti Istvan-korhaz borosztalyarol. (foorvos:
Dr. Rajka Odon)
(ANTIBIOTICS, ther.)
(SKIN DISEASES, ther.)

KOROSSY, S.; LANYI, B.; GOZONY, M.

Clarification of the problem of the role of intestinal bacteria
in eczema of bacterial origin. Borgyogy.vener.szemle 36 no.4:
168-175 J1 '60.

1. Kozlemeny a budapesti Istvan korhas Borosztalyarol (Foorvos:
Dr. Rajka Odon) es az Orszagos Kozegeszsegugyi Intezet Bakteriolo-
giai Osztalyarol(Osztalyvezeto: Dr.Haban Gyorgy).
(INTESTINES microbiol)
(ECZEMA etiol)

KOROSSY, S.; TOROK, H.; FEHER, E.; GOZONY, M.

Comparative investigations with different oxyquinolines in microbial cutaneous processes. Borgyogy. vener. szemle 37 no.6:271-273 D '61.

1. A Fov. Istvan-korhaz (Igazgato: Dr. Katona Istvan) Borosztalyanak (Foorvos: Dr. Rajka Odon) kozlemenye.

(DERMATOLOGY ther) (QUINOLINES ther)

FEHER, Elek, dr.; GOZONY, Marianna

Experience with penicillinase therapy of penicillin allergy.
Orv.hetil. 102 no.6:259-262 5 F'61.

1. A budapesti Istvan Korhaz Boroszlalya.
(PENICILLIN toxicol)
(PENICILLINASE ther)

POLAND-HUNGARY

RAJKA, Odon, KOROSSY, Sandor, and GOZONY, Marianna; Division of Dermatology, Hospital im. Istvan in Budapest (Hungary) [Original version not given] [Translated by Tadeusz FARYNA, Dr. med (Affiliation not given)]

"Problems of Path physiology of the Skin. Pruritus."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 19-20, 6-13 May 63, pp 706-709.

Abstract: [Authors' English summary modified] Authors report on a study of the pathogenesis and treatment of pruritus. Studies included the injection of urea, which causes blisters -- a method used for the study of skin diseases in which blisters do appear -- and the effect of various drugs on these blisters. The 11 references contain two (references) to English sources, the others being to articles of the authors in Hungarian publications and in Hautarzt.

[* Spelling of author's first initial given in the text as O, and in the references as E.]

1/1

RAJKA, Odon, Dr, KOROSSY, Sandor, Dr, GOZONY, Marianna, Dr; Capital City Istvan Hospital, Dermatology (Fovarosi Istvan Korhaz, Eborosztaly), Budapest.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516430007
"Some Questions on the Pathophysiology of the Skin."

Budapest, Orvosi Hetilap, Vol 104, No 32, 11 Aug 1963, pages 1489-1492.

Abstract: The first section of the article describes pruritus. The pathomechanism of poison ivy-like inflammations is discussed. Experiments on human skin devoid of blood circulation are described. Data to the theory of two-phase mechanism of pruritus and comparative investigations with other skin-axon reflexes are presented. A quantitative evaluation of morphine compounds which influence local pruritus is given. Section two deals with the pathomechanism of urea-blister formation. The influence of the oxygen supply and of proteolytic enzymes on the formation of urea-blisters and the investigation of the mechanism during and after a shut-off of arterial circulation are discussed. The effect of some medications are also evaluated. All experiments have been done on the human skin. The investigations are continued. 9 Hungarian, 2 Western references.

1/1

ANTELAVA, N.V.; GOZOTISHVILI, T.G.

Extraperiosteal pneumolysis with lucite balls in the surgical
treatment of pulmonary tuberculosis. Grud. khir. 1 no.4:50-56
Jl-Ag '59. (MIRA 15:3)

1. Iz pervoy khirurgicheskoy kliniki Tbilisskogo instituta
usovershenstvovaniya vrachey (dir. - prof. G.R. Khundadze).
(LUNGS—COLLAPSE)
(TUBERCULOSIS)

DOSTAL, Milan; ZAK~~VEJ~~, Yan[Zachvej, Jan]; tekhn. sotrudnichestvo:
GOZOVA, Irena, PRAZHAKOVA, OL'ga [Prazakova, Olga]

Effect of noradrenalin and adrenalin on the blood pressure of
irradiated animals. Cesk. otolaryng. 12 no.6:23-25 D'63.

1. Kafedra radiobiologii Voyenno-meditsinskogo issledovatel'-
skogo instituta i instituta usovershenstvovaniya vrachej
(rukoveditel': zav. kand.med.nauk I.Mraz).

*

GOZULOV, A. I.

Gozulov, A. I. - "Latest data on census study of the population of the Globe,"
(Chapter from a monograph), Uchen. zapiski (Rost. n/D gos.
un-t im. Molotova), Vol. XIII, 1948, p. 3-61

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No 13, 1949)

GOZUICOV, A. I.

Ekonomicheskaya statistika [Economic Statistics.] Moskva, Gosfinizdat, 1953. 540 p.

SO: Monthly List of Russian Accessions, Vol. 6 No 10 January 1954

GOZULOV, Aydar Ilich, professor; YEGOROV, A.I., professor, otvetstvennyy redaktor; LOS', T.A., redaktor izdatel'stva; CHERNYSHENKO, Ya.T., tekhnicheskiy redaktor

[The Lower Don (Rostov and Kamensk Provinces); natural resources, population and economy] Nizhnii Don (Rostovskaya i Kamenskaya oblasti); priroda, naselenie, khoziaistvo. Khar'kov, Izd-vo Khar'kovskogo universiteta, 1956. 206 p.
(Don Valley—Geography)

GOZULOV, Avdey Il'ich

[History of Russian statistics; brief studies] Istoryia
otcheatvennoi statistiki; kratkie ocherki. Moskva, Gosstatizdat,
1957. 178 p.
(Russia--Statistics--History)

GOZULOV, A. I.

MASLOV, Ye.P., otvetstvennyy red.; GOZULOV, A.I., otvetstvennyy red.;
RYAZANTSEV, S.N., otvetstvennyy red.; LYUBIMOV, I.M., red.;
OLINYKH, D.A., tekhn.red.; KUZNETSOV, N.S., red.kart.

[Northern Caucasus] Severnyi Kavkaz. Moscow, Gos.izd-vo geogr.
lit-ry, 1957. 507 p. (MIRA 10:12)

1. Akademiya nauk SSSR. Institut geografii.
(Caucasus, Northern--Geography, Economic)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

GOZULOV, A. I.

"On the Categories of Population in Demographic Censuses."

paper submitted at 31st International Statistical Institute, Brussels, 2-8 Sep 58.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

Gozulov, A.I.

AUTHOR: Ostroumov, S.

2-2-11/12

TITLE: For a Creative Development of a History of National Statistics
(Za tvorcheskuyu razrabotku istorii otechestvennoy statistiki)
"The History of National Statistics" by A.I. Gozulov (A.I.
Gozulov "Istoriya otechestvennoy statistiki")

PERIODICAL: Vestnik Statistiki, 1958, # 2, pp 85-90 (USSR)

ABSTRACT: The article deals with "The History of National Statistics"
by Professor A.I. Gozulov published by the Gosstatizdat in 1957.
The reviewer says that the book contains only a few valuable
chapters. As a whole the book has many deficiencies and the
author did not solve the important task set before him; the
book does not show the development of national statistics.
There are 2 Russian references.

AVAILABLE: Library of Congress

Card 1/1

AUTHORS: Gozulov, A., Gozulova, G.

SOV-2-58-8-10/12

TITLE: The USSR's Seeded Areas (Posevnyye ploshchadi SSSR) A Statistical Handbook, 1957, Vol 1 and 2 (Statisticheskiy sbornik) High Quality Crops in the USSR (Sortovyye posevy SSSR) A Statistical Handbook (Statisticheskiy sbornik)

PERIODICAL: Vestnik statistiki, 1958, Nr 8, pp 72 - 77 (USSR)

ABSTRACT: The 2 above-mentioned statistical handbooks (3 volumes), issued recently by the Tsentral'noye statisticheskoye upravleniye SSSR (USSR Central Statistical Administration) are reviewed. There are 2 tables.

Card 1/1

SOV/3-58-12-4/43

AUTHOR: Gozulov, A.I., Doctor of Economic Sciences, Professor
Shumilin, P.G., Docent, Candidate of Economic Sciences

TITLE: Methods of Reorganizing Economic Vuzes (Puti perestroyki
ekonomicheskikh vuzov)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 12, pp 25 - 28 (USSR)

ABSTRACT: In discussing the problem of reorganization of the schooling process in economic vuzes, the author states that there are 3 types of tuition: the resident-correspondence, correspondence-resident and the combined. The resident-correspondence system should be the basic one. It should provide for admission of graduates from professional schools and a training of 2.5 years with no outside work. Continuing their education by correspondence, the students undergo on-the-job training for 1.5 years and then return to the vuz where they finish their course of instruction and defend the graduation thesis. The correspondence-resident method of schooling provides that students enrolled in the vuz have studied 2 - 2.5 years only by correspondence, combining their studies with work in plants or offices. Students whose work is not connected with the chosen specialty should change jobs. If they do not succeed in getting work in their specialty, they should only be issued a certificate

Card 1/2

GOZULOV, Avdey Il'ich, prof.; SHCHENTSIK, Yu.M., red.; KAPRALOVA, A.A.,
tekhn.yed.

[Agricultural statistics] Statistika sel'skogo khoziaistva.
Moskva, Gos.stat.izd-vo, 1959. 459 p. (MIRA 12:9)
(Agriculture--Statistics)

GOZULOV, A.I., doktor ekonom. nauk, prof.; SHUMILIN, P.G., kand. ekonom. nauk, dots.; SHESTAKOV, P.A., red.; SHNEYDERMAN, K.A., red.; TOROPCHIN, N.S., red.; ZHEREBKOV, I.V., red.; IVANOVA, R.N., tekhn. red.

[Rostov Province; nature, population, economy and culture]
Rostovskaja oblast'; priroda, naselenie, khoziaistvo, kul'tura.
Rostov-na-Dolu, Rostovskoe knizhnoe izd-vo, 1961. 333 p.
(MIRA 15:3)

(Rostov Province--Economic geography)

GOZULOV, Avdey Il'ich ; KNYAZEVSKIY, Vladimir Sergeyevich;
ZAV'YALOVA, Ye.S., tekhn. red.

[Planning of and accounting for special factors labor productivity]
Planirovanie i uchet proizvoditel'nosti truda po faktorom. Moskva,
Ekonomizdat, 1962. 130 p. (MIRA 15:6)
(Labor productivity)

Gozulov, S.A.

USSR/Human and Animal Physiology - Aviation Physiology.

V-11

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18745

Author : S.A. Gozulov

Inst Title : The Problem of the Cumulative Effect of Acceleration.

Orig Pub : Voen.-med. zh., 1956, No 10, 55-59

Abstract : When dogs (11) were subjected to centrifugal forces in a caudocranial direction in a centrifuge with an arm 5 meters long, acceleration of 4.5 g lasting up to 1 minute produced only hyperemia of the conjunctiva and sclera. Acceleration of 6.5 g led to a more pronounced hyperemia and the loss of the orientation reflex in the first few seconds after the experiment. Upon dissection petechial hemorrhages were found on the interlobar surfaces of the lungs. Increasing the duration of rotation to 1.5 minutes at 6.5 g produced hemorrhaging from the nose and mouth and a passive state lasting 4 to 5 minutes.

Card 1/3

after the third, which also produced general motor excitation and strabismus which failed to disappear during the three subsequent weeks. Subjection to brief (0.15

Card 2/3

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CIA-RDP86-00513R000516430007-5"

GOZULOV, S.A., podpolkovnik med.sluzhby, kand.med.nauk

Tolerance to air flow acting upon aviators ejected from planes.
Voen.-med.zhur. no.12:41-44 D '58. (MIRA 12:12)

(AVIATORS,

tolerance to air flow during catapult take-off
(Rus))

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

GOZULOV, S.A., leand.med.nank, podpolkovnik meditsinskoy sluzby

Medical control during catapult training. Voen.med.zhur.
no.5:23-29 My '59. (MIRA 12:8)
(AVIATORS,
med. control of catapult train. (Rus))

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

S/865/62/002/000/023/042
D405/D301

AUTHOR:

Gozulov, S.A.

TITLE:

Some regular physiological changes due to impact accelerations

SOURCE:

Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisakyan and V. Yazdovskiy. Moscow, Izd-vo AN SSSR, 1962, 226-229

TEXT: This article was presented at the 10th European Congress on Aviation and Space Medicine, Paris, 26-30 September 1961. It was experimentally established that resistance to overloads in various species of animals depends on the functional reserves of the physiological systems which are the most 'vulnerable' under actual impact-acceleration conditions. Therefore it is of interest to study the laws which govern such functional changes. In higher animals, and in man in particular, the degree of resistance to strong impacts depends largely on a preliminary compensatory stimulation of vital functions prior to the action of the impact. These functional changes

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S/865/62/002/000/023/042

D405/D301

Some regular physiological ...

are of conditioned reflex type, constituting a protective biological mechanism. The functional changes which follow after the impact can be divided into several stages: primary reflectory disturbances due to the direct mechanical action on tissues and organs; reflectory responses directed towards a normalization of the disturbed functions; secondary after effects. Since the first stage involves a relative or absolute weakening of physiological functions, it is important to undertake preliminary stimulation of pulmonary circulation, respiration or other functions. The following functional changes can appear during the first stage: breathing difficulties, arterial pressure drop, weakening of muscle tonus, etc. The functional changes occurring in the first after-stage have to be distinguished from those occurring prior to the impact and also from later after effects. The overall functional response of the organism to impact acceleration has to be regarded as a complex process following specific laws, whose study is important for the solution of many practical problems.

Card 2/2

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

VOLYNKIN, Yu.M.; GOZULOV, S.A.; GYURUZHIAN, A.A.; YEREMIN, A.V.; YUGANOV, Ye.M.

Some problems in current aviation medicine; a review of the literature.
Voen. med. zhur. no. 2:61-66 '63. (MIRA 17:9)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

L 14399-65 EWG(j)/EWG(r)/EMT(1)/FS(v)-3/EMG(v)/EMG(a)/EMG(c) Pe-5 AEDC(a)/
AFWL/SSD/AFETR/AFTC(a) DD/ENS/RD
ACCESSION NR: AP4046784 S/0293/64/002/005/0805/0811

AUTHOR: Gozulov, S. A.; Mirolyubov, G. P.; Popov, N. N.; Frolov, M. I.

TITLE: Experimental investigation of the influence of impacts on the organism

SOURCE: Kosmicheskiye issledovaniya, v. 2, no. 5, 1964, 805-dll

TOPIC TAGS: rat, dog, impact, simulation test, reentry

ABSTRACT: Rats and dogs were exposed to impacts ranging from 4 to 10 g with load magnitudes of from 500-1000 units and durations of 1-10 msec. Experiments were conducted in a flight stand where animals were suspended in a vertical position. Tests in all, included were conducted on a rat and a dog. In addition, animals were exposed to repeated impact in a test. Electrocardiogram and heart rate were registered from the rat and dogs. Arterial pressure was recorded from the rat using electro-mechanical methods. The results of the investigations

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In variations in the pulse rate in rats subjected upon the head and neck to impact at speeds of 100—350 units per second. In 110 cases, when impact produced a increased pulse rate, there was also injury to internal organs. Of 110 rats, 82 exhibited damage to one or more organs, while 19 showed only slight damage, induced by subcutaneous or intramuscular hemorrhaging. The organ to be the organs most susceptible to impact in dogs was an increase in the pulse rate of 100—350 sec followed by a greater than 300 units. During the first minute following increased arterial pressure rates of 100—350 mm Hg there was a decreasing of the heart rate. In general, it can be seen a general background of the results of this experiment were exposed to speeds of 100—350 units per second impacts of 100—350 units per second, the maximum impact in maximum heart and respiration rate was 100—350 units per second. In this study the maximum heart rate was 100—350 units per second exposed to repeated impacts. If rats exposed to three impacts of 100—350 units (10 minute intervals) there was a particularly

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ACCESSION NR: AP4046784

O
disruption of cardiac rhythm (extrasystole and atrioven-

tricular block) in general, reported that it did not intensify
the effects of drugs except to some extent. The 500-milligram
dose durations of 10-15 msec and intervals between impacts of
less than 1 sec did not show this increased disruption of physiological func-
tion because of the greater intervals between impacts. As
a result of the above evidence, the author is unable to
recommend a specific dose of the drug. It is felt, however, that the
drug is complex and that more information is needed of its
pharmacological effects before a specific dose can be recommended.

AUDITION: none

SUBMITTED: 03Feb64

ENCL: 00

SUB CODE: LS, PH

NO REF Sov: 003

OTHER: 008

ATD PRESS: 3136

Card 3/3

□ (L.O. 24 L.D.M., S.A.)

L 41032-65 ENT(d)/ENT(m)/ENT(w)/T-2 EM
ACCESSION NR: AP5008577

8/0286/65/000/006/0113/0113

AUTHORS: Zuyev, M. A.; Razin, G. M.; Krylov, V. M.; Volkov, A. F.; Timoshin,
Yo. P.; Starikov, V. P.; Goulikov, S. A.; Denasov, V. B.; Kirolyubov, G. P.

TITLE: Test stand for creating impact overloads. Class 62, No. 169407

SOURCE: Byulleten' izobretений i tovarnykh znakov, no. 6, 1965, 113

TOPIC TAGS: impact testing

ABSTRACT: This Author Certificate presents a test stand for creating impact overloads. The stand contains a truss with controlling cables, a hoisting device, a platform for the investigated object, a cable with a suspension system, a cut-off mechanism, a braking mechanism, shock absorbers, and instruments for measuring the platform drop rate. To increase the safety of the experiment and to exclude the effect of the prescribed height on the free fall of the platform, the stand is provided with a contactless mechanism for setting the height (see Fig. 1 on the Enclosure). It consists of a transmitting selsyn connected by a flexible shaft to the shaft of an electric tackle drum, a receiving selsyn placed in the frame of the mechanism, and a mechanism reductor. A setting indicator with a knob and contact, a sliding indicator with a contact, a height indicator scale,

Cord 1/3

L 41032-65

ACCESSION NR: AP5008577

and a stop relay are connected in the magnetic starter circuit of the electric tackle. Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 02Jan64

ENCL: 01

SUB CODE: ME

NO REF Sov: 000

OTHER: 000

Card 2/3

ACC NR: AT6036533

SOURCE CODE: UR/0000/66/000/000/0124/0126

AUTHOR: Gozulov, S. A.; Frolov, N. I.

ORG: none

TITLE: Problem of evaluating human muscular work capacity following impact accelerations [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966.]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 124-126

TOPIC TAGS: space physiology, human physiology, space medicine, impact acceleration, biologic acceleration effect

ABSTRACT: Determining physiologically permissible tolerance limits of impact accelerations is difficult because of the brief duration of the stress. Also, it is impossible to interrupt or diminish the action of mechanical forces during an experiment. In this study, the static and dynamic work capacity of human subjects was investigated following their exposure to various magnitudes of accelerations.

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ACC NR: AT6036533

The study showed that in repeated experiments, dynamic and static work capacity underwent a sequence of changes which could be qualitatively and quantitatively evaluated. Qualitatively, indices of work capacity such as strength, resistance to fatigue, fatigability, and static work capacity generally showed an increase. As acceleration was increased, discoordination resulted which was manifested by the fact that some indices deteriorated while others were maintained or improved. Thus, while muscular strength was maintained at its original level, resistance to fatigue diminished, or strength diminished while resistance to fatigue and fatigability were unchanged, etc. Otherwise, work capacity was maintained as if there were functional redistribution or reciprocal compensation. A further increase in acceleration led to the diminution of all previously mentioned work capacity indices.

Quantitative changes in work-capacity indices were marked by disparities before and after exposure in that test. values were higher before exposure than after. These changes had variable trend characteristics with a tendency towards improvement. As tests were repeated, the disparity in work-capacity indices decreased. Here, the trend was towards lowered work capacity. Therefore, muscular work capacity as a function of exposure to repeated impact accelerations which increased in magnitude went

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ACC NR: AT6036533

through three stages:

1. an improvement in work capacity
2. discoordination stage
3. lowered work-capacity stage

Lowered work-capacity indices were noted on a fairly small scale, but during high accelerations, decreased work capacity was observed in the majority of subjects and was a precursor of possibly more serious and rapidly developing work-capacity disorders. Since the organism, the process of accommodating a constantly increasing stressor, selects functional reserves below its tolerance limit, decompensation to a certain extent results. This is reflected in lowered strength and resistance to fatigue, increased fatigability, and diminished static endurance. These stages of work-capacity changes have practical application where there is high individual disparity in tolerance to impacts. Therefore, by considering the developmental sequence of changes, a more accurate detection of the onset of depression is possible and the functional tolerance limit located in a zone of stable work capacity can be determined. W. A. No. 22; ATD Report

66-1167

SUB CODE: 06 / SUBM DATE: 00May66

Card 3/3

AUTHORS:

Gozulov, A., Gozulova, G.

SOV-2-58-8-10/12

TITLE:

The USSR's Seeded Areas (Posevnyye ploshchadi SSSR) A Statistical Handbook, 1957, Vol 1 and 2 (Statisticheskiy sbornik) High Quality Crops in the USSR (Sortovyye posevy SSSR) A Statistical Handbook (Statisticheskiy sbornik)

PERIODICAL:

Vestnik statistiki, 1958, Nr 8, pp 72 - 77 (USSR)

ABSTRACT:

The 2 above-mentioned statistical handbooks (3 volumes), issued recently by the Tsentral'noye statisticheskoye upravleniye SSSR (USSR Central Statistical Administration) are reviewed. There are 2 tables.

Card 1/1

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

GOZULOVA, S.A., kand.med.nauk; MUSALOV, G.G., kand.med.nauk

On hygienic characteristics of the driver's seat in transportation.
Gig. i san. 24 no.9:21-26 8 '59. (MIRA 13:1)
(HUMAN ENGINEERING)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

GOZYUMOV, S.G.

Determining the optimal drilling angle over the whipstock.
Izv.v.s.ucheb.zav.; neft' i gaz 7 no.4:29-33 '64. (MIRA 17:5)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova.

GOZYUMOV, S.G.

Investigating the factual profile of slanted prospecting wells
drilled on the Fiagdon oil field in Northern Ossetia. Izv. vys.
ucheb. zav.; neft' i gaz 7 no.7:53-37 '64.

(MIRA 17:9)

1. Azerbaydzhanskiy institut nefti i khiridi im. M. Azizbekova.

GOZYUROV, S.G.

Regularity in the azimuthal deviation of holes in the Fiagdon
oil field in North Ossetia. Izv. vys. ucheb. zav.; neft' i gaz
7 no.8:27-29 '64. (MIRA 17:10)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova.

CZECHOSLOVAKIA / Chemical Technology. Chemical Products. H
Corrosion. Corrosion Protection.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67845.

Author : Graas Z., Svacina J.

Inst : Not given.

Title : Protection of Condensate Piping from Corrosion at
Varying Temperatures.

Orig Pub: Chem. Prumysl, 1956, 6, No 11, 474-475.

Abstract: Results of the pilot plant investigations, conducted by the Czechoslovakian Institute of Synthetic Rubber, on a number of combined coatings for the corrosion protection of steam condensate piping, located in concrete trenches, showed, that the best protection is attained with asphalt having a jute cloth reenforcing and covered with glass wool.

Card 1/1

10

GRABIT, I.

PHASE I BOOK EXPLOITATION 565

Belov, A.N., Shatov, S.G., Khartsiyev, N.A., Grab, I.I., and
Cherchik, I.A.

Vosstanovleniye detaley mashin termitnoy naplavkoj; iz opyta avto-
remontnogo zavoda (Rehabilitation of Machine Parts by Thermit
Resurfacing; Practice of an Automobile Repair Plant) Leningrad,
1956. 15 p. (Series: Leningradskiy dom nauchno-tehnicheskoy
propagandy. Informatsionno-tehnicheskiy listok, no. 15. Svarka
i payka metallov) 6,000 copies printed.

Sponsoring Agencies: Leningradskiy dom nauchno-tehnicheskoy propa-
gandy, and Vsesoyuznoye obshchestvo po rasprostraneniyu politi-
cheskikh i nauchnykh znaniy.

Ed.: Ryzhik, Z.M., Engineer; Tech. Ed.: Freger, D.P.

PURPOSE: This pamphlet is intended for welding personnel employing
thermit processes.

Card 1/2

Rehabilitation of Machine Parts (Cont.) 565

COVERAGE: The pamphlet presents a brief description of the thermit process adapted to resurfacing of worn out machine parts. No personalities are mentioned. There are no references.

TABLE OF
CONTENTS:

Accessories for Thermit Deposition	1
Rehabilitation of the Driving Wheel of a Caterpillar Tractor	3
Rehabilitation of the ZIS-150 Automobile Reverse Gear	4
Pouring Processes	6
Chemical Composition, Mechanical Properties of the Layer Deposited on the Gear	8
Economic Effect	9
Appendixes	11
Calculating thermit mixture	12
Required quantity of ferroalloys	16

AVAILABLE: Library of Congress

Card 2/2

JG/ad
9-10-58

GRAB, V. G., Cand Biol Sci -- (diss) "Study of the reaction of the organism of a horse during infestation by the larvae of gastro-intestinal gadflies." Kiev, 1957. 16 pp. (Acad Sci UkrSSR, ~~Науковий відділ~~ Div Biol Sci), 100 copies. (KL, 9-58, 115), *pl*

G R A B , V . G .

USSR / Diseases of Farm Animals: Arachno-Entomoses.

R

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7481

Author : Grah, V. G.

Inst : Kiev Veterinary Institute

Title : The Nature of Reactive Changes in the Organism of
Horses Exposed to the Parasitism of Horse Botfly
Gastrophilus equi Larvae

Orig Pub : Tr. Kiyevsk. vet. in-ta, 1957, 13, 157-172

Abstract : The experiment was conducted on 30 horses and 62
laboratory animals. In horses which were exposed to
the effects of a botfly infestation, a single intra-
venous injection of an extract prepared from the larvae
of these parasites produced a clinical reaction which
was typical for anaphylactic shock, of which the degree
of manifestation corresponded to the dose of the intro-
duced extract but did not depend upon the number of

Card 1/3

USSR / Diseases of Farm Animals. Arachno-Entomoses.

R

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7481

botflies parasiting in the organism. The thus occurring changes of the morphological composition and physico-chemical properties of the blood, as well as pathomorphological changes of internal organs in perished horses were also characteristic for anaphylactic shock. A repeated introduction of the extract 15 - 90 minutes after the first one which had already produced a reaction, did not change the course of the latter, whereas when the injection was repeated 13 hours to 14 days later (after the reaction to the previous injection had disappeared), a new reaction was not produced. Animals which were not affected by botflies (2 - 5 months old foals, rabbits, guinea pigs, white mice) did not react at all to single injections of the extract, even if it was injected in dosages largely exceeding MLD used for horses. However,

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29

USSR / Diseases of Farm Animals. Arachno-Entomoses.

R

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No: 7481

if the animals were given preliminary injections of the serum derived from a horse that had reacted to the introduction of the extract, or if the injection of the extract was repeated, a reaction took place. According to the author's data, parasitism by botfly larvae does not result in intoxication of the horse's organism, but produces a state of allergy in it. -- L. S. Goberman

Card 3/3

GRAB, Wladzimierz

Show and contest of historical miner's clothes. Wiadom
gorn 15 no.1:18 Ja '64.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

GRABAK, F.

GRABAK, F.--"Investigation of the Reaction between Dimethyl Aniline and Benzol Peroxide in Solutions." Min Higher Education USSR. Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov. Moscow, 1955. (Dissertation for the Degree of Candidate in Chemical Science).

SO Knizhnaya letopis'
No 2, 1956

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

GRABAN, V.M.

GULEZOV, Yu. A., inzhener.; AKOPYAN, Z.G., inzhener.; GRABAN, V.M.

Obtaining edible peanut cake. Masl.-zhir. prot. 23 no. 5:39-40 '57.
(MIRA 10:5)

1. Armavirskiy maslozavod No.4.
(Peanut products)

GRABAN, W.; DOROSZEWSKI, J.; RAJSZIS, R.; MIERNOWSKI, S.;
MAZUROWSKI, W.; STROIŃSKA-KUSIOWA, B.

Comparison of gamma-ray encephalography with the results of
cerebral arteriography. Pol. przegl. radiol. 27 no.2:141-159
'63.

1. Z Zakladu Radiologii Lekarskiej AM w Warszawie Kierownik:
prof. dr nauk med. W. Zawadowski Z Kliniki Neurologicznej AM
w Warszawie Kierownik: prof. dr med. I. Hausmanowa-Petrusewicz
Z Kliniki Neurochirurgicznej AM w Warszawie Kierownik: prof.
dr med. L. Stepień.
(CEREBRAL ANGIOGRAPHY) (RADIOAUTOGRAPHY)
(BRAIN DISEASES) (ALBUMINS)

GRABAN, V. [Graban, V.]; GAUSMANOVA-Petrusevich, I.; STROIINSKAYA, B.

Gammacerebral angiography in the diagnosis of cerebrovascular diseases.
(MIRA 18:7)
Med. rad. 10 no.1:12-14 Ja '65.

1. Laboratoriya radioaktivnykh izotopov kafedry meditsinskoy radiologii
i klinika nervnykh bolezney Meditsinskoy akademii (zav. - prof.
I. Gausmanova-Petrusevich), Varshava.

GRABAN, Wieslaw; FIDZIANSKA, Anna

Determination of the exchange space of tissue potassium using
K-42. Neurol., neurochir., psychiat. Pol. 15 no.1:37-41 Ja-F'65.

1. Z Zakladu Radioizotopow Katedry Radiologii Lekarskiej Akademii
Medycznej w Warszawie i z Kliniki Neurologicznej Akademii Medycz-
nej w Warszawie (Kierownik Kliniki: prof. dr. med. I. Hausmanowa-
Petrusewicz).

GRABAN, W.; HAUSMANOWA-PETRUSEWICZ, I.; STROINSKA, B.

Gammaencephalography in various vascular brain diseases. Pol.
przegl. radiol. 29 no. 2:207-214 Mr-Ap '65

1. Z Zakladu Radioizotopow Katedry Radiologii Lek. w Warszawie
(Kierownik: prof. dr. med. S.L. Zgliczynski) i z Kliniki Neuro-
logicznej Akademii Medycznej w Warszawie (Kierownik: prof. dr.
med. I. Hausmanowa-Petrusewicz).

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

GRABANIA, Jan

The bonus system and labor efficiency of intellectual workers.
Praca zasieg spol 4 no.2:15-19 '62.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

GRABANIA, Jan; KARWANSKI, Ryszard

A new premium system in practice. Praca zabezp spol 7 no.4:
30-35 Ap '65.

GRABAR, H. 1951

(Kutovlgyi-uti Allami Korhaz Laboratoriuma es Belosztalya)

"Simultaneous Determination of Extra-Cellular Space and Clearance in Man According to the Urineless Method of Balint, Harsing and Lenner."

Kiserl. Orvostud, Budapest, 1951. 3/5(381-386)
Abst: Exc. Med. 11, Vol. 5, No. 10, p. 1193

GRABAR', I.K.

GRABAR', I.K.

Rotating warp roller on mechanical looms. Tekst.prom. 14 no.6:
50-51 Je '54. (MLRA 7:7)

1. Pom. mastera fabriki kombinata "Trekhgornaya manufakturna"
im Dzerzhinskogo.
(Looms)

GRABAR, I. K.,

Rotating beam of mechanical looms. Tr from the Russian. p. 39.
LEKA PROMISHLENOST, Sofiya, Vol. 4, no. 1, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

WT(1)/EWA(h) Peb
AP5016721

MP 10286 165 1000/010/0040/0040

AUTHORS: Lipinskiy, C. V.; Notkin, L. R.; Glushko, E. N.; Grabar', K. V.

TITLE: Rectangular pulse generator. Class 21, No. 171020

СССР № 1021117 'Pryjatelen' izobreteniy i tovarnykh znakov, no. 11, 1965, 40

TOPIC TAGS: pulse generator

This Author Certificate presents a rectangular pulse generator containing a switch trigger. A sawtooth voltage source is connected to the input of the switch trigger with a reference, connected to ground. The output of the switch trigger is connected in series to the output of one of the branches. See Fig. 1 in the drawing. To insure the constancy of the τ law of the switch trigger, the switch trigger voltage is supplied by both a fixed voltage source connected to ground and a variable voltage source connected to ground.

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po radioelektronike SSSR
ORGANIZATION of the State Committee for Radioelectronics of the USSR

Page 1 / 3

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

ACCESSION NR: AP5016721

SUBMITTED: 17Jul64

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Card 2/3

APPROVED FOR RELEASE: 03/13/2001

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CIA-RDP86-00513R000516430007-5

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

GRABAR', L.P.; ZAYTSEVA, A.D.; TUNKOV, V.P.

Revealing the relation of the magnetic properties of low-carbon
electrical steel to technological factors with the help of
mathematical statistics. Stal' 23 no.5:416-418 My '63.

(MIRA 16:5)

(Steel--Magnetic properties)

GRABAR', L.P.; DITKIN, V.A., prof., otv. red.; ORLOVA, I.A.,
red.

[Tables of Chebyshev polynomials orthonormalized on a
system of equidistant points] Tablitsay polinomov Cgeby-
sheva, ortonormirovannykh na sisteme ravnootstoyashchikh
tochek. Moskva, Vychislitel'nyi tsentr AN SSSR, 1965.
69 p. (MIRA 18:12)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

Approved M

CIA-RDP86-00513R000516430007-5"

GRABAR, M. I.

GRABAR, M. I. - "Irreducible Dynamic System." Sub 23 Apr 52, Sci Res Inst of Mechanics and Mathematics, Moscow Order of Lenin State U imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Physicomathematical Sciences).

SO: Vechernaya Moskva January-December 1952

FA 242T89

GRABAR', M. I.

USSR/Mathematics - Topologic Equivalence Mar 52

"Representation of Dynamic Systems as Systems of
Solutions of Differential Equations," M. I.
Grabar', Chair of Differential Equations

"Vest Moskov U, Ser Fiz, Mat, i Yest Nauk" No 2,
pp 3-8

Deals with particular case of V. V. Nemytsin's
problem (Usp Mat Nauk, 6 (1949)) of topologic
equivalence of dynamic systems to a system of
solutions of differential eqs. Received 10 Sep 51.

242T89

Mathematical Reviews

Vol. 14 No. 10

Nov. 1953

Analysis

7-14-54
LL

Grabar', M. I. Transformation of dynamical systems into systems of solutions of differential equations. Vestnik Moskov. Univ. Ser. Fiz.-Mat. Estestv. Nauk 1952, no. 3, 3-8 (1952). (Russian)

The author proves that every dynamical system (flow) in a separable locally compact space can be topologically imbedded in a Hilbert space H in such a fashion that the flow is defined by a differential equation $\dot{x} = F(x)$ in H . Here x is an element of H and \dot{x} is defined as the strong limit, as h tends to 0, of the ratio of $x(t+h) - x(t)$ to h . This result extends previous work of the author [Doklady Akad. Nauk. SSSR (N.S.) 61, 433-436 (1948); these Rev. 10, 309]. As a corollary the existence of a local cross-section for the flow is established.

W. Kaplan (Zurich).

bers, amino-resins, celluloid, polystyrene, plexiglass, and films of soft polychlorovinyl resin. Suggests technological improvements and measures to make plastic products more attractive to consumers. No references are cited.

Institution : Main Chemical Administration of the U.S. Army of Plastics, Lacquers, and
APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516430007-5

for $\tau \in [0, \infty)$
A system is called irreducible if it has no non-trivial invariant, normalized measure. A dynamical system is called irreducible if every trajectory is everywhere dense in R .

The author gives an example of a dynamical system defined on the 3-dimensional torus T^3 by a system of differential equations which is ergodic but not irreducible. This example exhibits a trajectory which is dense in T^3 but is not irreducible but not ergodic. The author also gives a previous example of a system which is ergodic but not irreducible.

See also Ergodic Theory and Statistical Mechanics by Ruelle, Dynamical Systems by Katok and Hasselblad, and Ergodic Theory by Furstenberg.

where r , v and ε are real.

Let $y = v/\varepsilon$. Then y satisfies

$y' = v'/\varepsilon$

$y'' = v''/\varepsilon^2$

$$\frac{dy}{dt} = \alpha_1 A(v) \cdot \frac{dy}{dt} + \frac{dy}{dt}$$

Observe that $A(v)$ is a 2×2 matrix with entries

which are continuous functions of v and v' . It follows that $A(v)$ is strongly elliptic both in t and v .

The proof is outlined in some detail in [1]. The main idea is to reduce the problem to a parabolic one by using a suitable change of variables.

GRABARJ, M.I.

SUBJECT USSR/MATHEMATICS/Functional analysis
 AUTHOR GRABARJ M.I.
 TITLE On the time transformation in dynamic systems.
 PERIODICAL Doklady Akad.Nauk 109, 250-252 (1956)
 reviewed 2/1957 No. 2

Let R be a compactum. A continuous one-parametric group $\{S_t\}$ of the homeomorphisms S_t of the compactum onto itself is denoted a dynamic system in R . The parameter t is called time and the set of points $S_t x$ is called trajectory of the point $x \in R$. If $\{S_t\}$ and $\{\tilde{S}_\tau\}$ have the same trajectories, then for every $x \in R$ and every t ($-\infty < t < +\infty$) the relation

$$(1) \quad \tilde{S}_\tau x = S_t x$$

must be satisfied. Here $\tau = \varphi(x, t)$ is the function of the time transformation along the trajectory, it transforms the system $\{S_t\}$ in the system $\{\tilde{S}_\tau\}$. Let the function $\varphi(x, t)$ admit the following representation:

$$(2) \quad \tau = \varphi(x, t) = \int_0^t F(S_\lambda x) d\lambda,$$

Doklady Akad. Nauk 109, 250-252 (1956)

CARD 2/3

PG - 593

where $F(x)$ is a continuous real function of $x \in R$ and $F(x) > 0$ everywhere on R .
 For the reverse function holds:

$$(3) \quad t = \psi(x, \tau) = \int_0^\tau F_1(S_{\frac{\tau}{F}(x)}) d\vartheta, \text{ where } F_1(x) = \frac{1}{F(x)}.$$

Further let m be a normalized, irreducible and for $\{S_t\}$ invariant measure which is defined on a certain field \mathcal{L} which contains all Borel sets of the space R . In the dynamic systems introduced thus (see Bebutov and Stepanov, Mat. Sbornik, n. Ser. 7, 143 (1940); Rochlin, Upechi mat. Nauk 4, 2 (1949)) the author investigates the change of the spectrum at the time transformation (2) and the conditions which must be satisfied by $F(x)$ in order that the systems $\{S_t\}$ and $\{\tilde{S}_t\}$ have the same spectrum. The following principal theorem is proved:

1. If there exists a real, m -measurable function $\phi(x)$ being defined on R , which possesses the property that for every fixed t and for almost all (in the sense of m) $x \in R$ the equation

$$\phi(S_t x) = \phi(x) + \int_0^t (F(S_{\frac{\tau}{F}(x)}) - 1) d\vartheta$$

Doklady Akad. Nauk 109, 250-252 (1956)

CARD 3/3

PG - 593

is satisfied, then the systems $\{S_t\}$ and $\{\tilde{S}_T\}$ are isomorphic, i.e. their spectra are identical.

From this theorem some conclusions are made. For certain restrictions one obtains a result which joins investigations of Kolmogorov (Doklady Akad. Nauk.

93, No. 5 (1953)).

2. The system $\{S_t\}$ shall have the eigenfrequency $\lambda \neq 0$. If there exists a real, m-measurable function $\phi(x)$ with the property

$$\phi(S_{\frac{2\pi}{\lambda}x}) = \phi(x) + \int_0^{\frac{2\pi}{\lambda}} (F(S_{\lambda}x) - 1) d\lambda \quad \text{for almost all } x \in \mathbb{R},$$

then the systems $\{S_t\}$ and $\{\tilde{S}_T\}$ are isomorphic.

INSTITUTION: Institute for chemical engineering, machine building, Moscow.

GRABAR, M.I.

SUBJECT USSR/MATHEMATICS/Functional Analysis CARD 1/3 PG - 594
 AUTHOR GRABARJ M.I.
 TITLE On a sufficient mark of the isomorphism of dynamic systems.
 PERIODICAL Doklady Akad.Nauk 109, 431-433 (1956)
 reviewed 2/1957 No.3

The author joins his first paper on dynamic systems (Doklady Akad.Nauk 109, 250-252 (1956)). In the compactum R let be given two dynamic systems $\{S_t\}$ and $\{\tilde{S}_t\}$. Let

$$d\tau = F(S_t x) dt,$$

where F is a positive, continuous, real function of the point $x \in R$. Let m be a normalized irreducible measure being invariant for $\{S_t\}$. If the condition of normalization

$$\int_R F(x) dm = 1$$

is satisfied, then the formula

$$dm' = F dm$$

defines an analogous measure for $\{\tilde{S}_t\}$.

Let $\{U_t\}$ be a one-parametric group of unitary operators in the complex space $L^2_m(R)$:

CARD 2/3

PG - 594

Doklady Akad. Nauk 109, 431-433 (1956)

$$U_t f(x) = f(S_t x).$$

Then

$$U_t = e^{i\lambda t},$$

where λ is a selfadjoint operator in $L^2(\mathbb{R})$.

Let $F^*(x) = F(x) - 1$. Then the functional equation (Doklady Akad. Nauk 109, 250-252 (1956))

$$\phi(S_t x) = \phi(x) + \int_0^t F^*(S_{s-} x) ds.$$

is equivalent to the operator equation

$$i\lambda \phi = F^*.$$

This lemma is used for the proof of the author's principal result: Let

$$g(t) = \int_{\mathbb{R}} F^*(S_t x) \cdot F^*(x) dm.$$

Because of the definition of the scalar product we have

GRABARJ, M.I.

SUBJECT USSR/MATHEMATICS/Functional analysis CARD 1/1 PG - 595
AUTHOR GRABARJ M.I.
TITLE On the spectrum of harmonicable dynamic systems.
PERIODICAL Doklady Akad.Nauk 109, 687-689 (1956)
reviewed 2/1957

The author uses his earlier results (Doklady Akad.Nauk 109, 250-252 (1956); ibid. 109, 431-433 (1956)) in order to extend the investigations of dynamic systems on a two-dimensional torus (Kolmogorov, Doklady Akad.Nauk 93, No.5 (1953)) to the general case of an n-dimensional torus.

INSTITUTION: Institute for chemical engineering, Moscow.
machine building

16(1)

AUTHOR: Grabar', M.I. SOV/20-126-5-4/69
TITLE: Isomorphism of Dynamic Systems Differing From Each Other Only
in Time
PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 931-934 (USSR)
ABSTRACT: The paper is a direct continuation of [Ref 1]. The dynamic
systems $\{S_t\}$ and $\{\tilde{S}_t\}$ differ only in the time :
 $d\tau = F(S_t x)dt$, where $F(x)$ is a real, continuous, positive
function of the point $x \in R$. Let m be an irreducible invariant
and normed measure in $\{S_t\}$. An analogous measure \tilde{m} is de-
fined in the system $\{\tilde{S}_t\}$ by $d\tilde{m} = F(x)dm$, $\int_R F(x) dm = 1$.

The author investigates the question of the metric isomor-
phism of the systems $\{S_t\}$ and $\{\tilde{S}_t\}$ with the measures m
and \tilde{m} . In accordance with [Ref 1] it is put $F^*(x) = F(x)^{-1}$
and

$$g(t) = \int_R F^*(S_t x) \cdot F^*(x) dm$$

Card 1/2

SOV/20-126-5-4/49

Isomorphism of Dynamic Systems Differing From Each Other Only in Time

Theorem: If for $\lambda > 0$ it holds $\int_0^\infty e^{-\lambda t} \xi(t)dt = O(\lambda)$,

then $\{S_t\}$ and $\{\tilde{S}_t\}$ are isomorphic.

Theorem: If it is $\int_0^\infty \xi(t)dt = 0$ and if $\int_0^\tau t \xi(t)dt$ is bounded

for $\tau \geq 0$, then $\{S_t\}$ and $\{\tilde{S}_\tau\}$ are isomorphic. A further characteristic of isomorphism is given.

There are 2 Soviet references.

ASSOCIATION: Moskovskiy aviatsionnyy tekhnologicheskiy institut (Moscow Aviation-Technological Institute)

PRESENTED: March 4, 1959, by A.N. Kolmogorov, Academician

SUBMITTED: March 2, 1959

Card 2/2

GRABAR', M.I.

Homogeneity of dynamic systems and the Birkhoff problem. Uch.
zap. Mosk.un. no.186[a]:161-177 '59. (MIRA 13:6)
(Topology)

LEFSHETS, S. [Lefschetz, Solomon, 1884-]; VINOGRAD, R.Ye. [translator];
GRABAR', M.I. [translator]; NEMYTSKIY, V.V., red.; NEMYTSKIY,
V.M., red.; ALEKSEYEV, V.M., red.

[Differential equations; geometric theory] Geometricheskaya
teoriia differentsial'nykh uravnenii. Pod red. V.V.Nemytskogo,
V.M.Nemytskogo i V.M.Alekseeva. Translated from the English.
Moskva, Izd-vo inostr. lit-ry, 1961. 387 p. (MIRA 15:2)
(Differential equations) (Topology)

16,3400

45330

S/020/63/148/004/003/025
B172/B180

AUTHOR:

Grabar', M. I.

TITLE:

The equation $\frac{dx}{dt} = f(x)$ on the phase space of a dynamic system

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 148, no. 4, 1963, 757 - 760

TEXT: $\{S_t\}$ denotes a dynamic system in a Lebesgue space R with the normalized measure m . $L^2(R)$ is the space of the functions defined over R and quadratically integrable with respect to m . The equation $y(S_t x) = y(x) + \int_0^t [f(S_\tau x) - \omega] d\tau, \quad (1)$ is considered, where $f(x)$ is given and $y(x)$ is sought. $\int_0^t f(x) dm$. First, two theorems giving thenecessary and sufficient conditions for the existence of a solution of (1) are proven. Furthermore, $\{S'_t\}$ denotes the system obtained from $\{S_t\}$ by the substitution $d\tau = F(S_t x) dx$, where $F(x)$ is a real bounded function, measurable

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GRABAR', M.I.

Irresolvable measures in dynamic systems. Dokl. AN SSSR 148
no. 5:1009-1012 F '63. (MIRA 16:3)

1. Predstavлено академиком А.Н.Колмогоровым.
(Topology)

S/218/63/028/001/002/002
B144/B186

AUTHORS: Kashkin, K. P., Grabar, P. N., and Courcon, Janine

TITLE: Electrophoretic and immunochemical analysis of blood serum
of mice irradiated with a lethal x-ray dose

PERIODICAL: Biokhimiya, v. 28, no. 1, 1963, 89-100

TEXT: Non-inbred white mice were whole-body irradiated with an x-ray dose of 1000 r and their serum composition was studied daily until they perished to clear up the behavior of the individual protein fractions. After irradiation the total protein content was reduced by ~15% up to the 5th day, but then recovered to normal values. This reduction was due to the decrease in α_1 and β globulins, while the albumin content hardly changed. The final restoration was brought about by a 50-100% increase of α_2 and β_2 globulins; at the same time α , β_3 , and γ globulins and albumins diminished or even disappeared. Glycoproteids increased initially in the zone of α globulins and later in that of β_1 and β_2 globulins. The lipoproteids showed a sharp decrease in their highly mobile fractions and

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S/218/63/028/001/002/002
B144/B186

Electrophoretic and immunochemical ...

a significant increase in less mobile fractions in the zone of α globulins. Immuno-electrophoretic investigations with special rabbit antisera were made to discern normal from pathological forms in the increasing α_2 and β_2 globulin fractions. New and degraded old antigens were detected in the zone of α_2 globulins. The increase in β_2 globulins is caused by an increase in β_2 -I globulins and by shifting of β_3 -I globulins into this zone, while β_2 -II and β_2 -M globulins diminished. β_3 -I globulin was not detected in the serum of non-irradiated mice. The higher susceptibility of irradiated mice to infections is due to the reduction of β_3 -II, β_3 -III and γ globulins. The change observed in the mobility of β_3 -I globulins is of special interest because of the identity established between this mouse globulin and the human β_1 -C globulin by J. Clausen, J. Heremans (J. Immunol. 84, 128, 1960). There are 4 figures.

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S/218/63/028/001/002/002
B144/B186

Electrophoretic and immunochemical ...

ASSOCIATION: Otdeleniye khimii mikrobov Instituta im. L.Pastera, Parizh
(Department of Microbe Chemistry of the L. Pasteur Institute,
Paris); Tsentral'nyy nauchno-issledovatel'skiy institut
meditsinskoy radiologii, Leningrad (Central Scientific
Research Institute of Medical Radiology, Leningrad) (Kashkin)

SUBMITTED: June 6, 1962

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CIA-RDP86-00513R000516430007-5

GRABAN; V. A.

30411

Opyt vyrashchivaniya gladiolusov iz syemyan, Byullyetyen, Glav.
botan. sada, vyp. 3, 1949, s. 68

SO: LETOPIS' No. 34

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

Grabar', V.A.

Cultivation of certain hothouse plants outdoors. Biul.Glav.
bot.sada no.19:139 '54. (MLRA 8:2)

1. Botanicheskiy sad Ushgorodskogo gosudarstvennogo universiteta.
(Plants, Cultivated)

GRABAR', V. A.

USSR/Cultivated Plants - Ornamental.

M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44394

Author : Grabar', V.A.

Inst : Uzhgorod State University.

Title : Experiment in the Introduction of Wild Decorative Plants from the Flora of Trans-Carpathia

Orig Pub : Nauchn. zap. Uzhgorodsk. gos. un-ta, 17, 80-87.

Abstract : The Botanical Garden of the Uzhgorod State University has been introducing since 1947 mountain species from the flora of Trans-Carpathia. The article describes the ecological conditions of the natural growth of the introduced plants. Lower soil temperature at a depth of 15-20 cm and its light moisture content contribute to the survival of sub-alpine plants after being transplanted into the gardens. The article gives a table of the temperature

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USSR/Cultivated Plants - Ornamental.

M.

Abs Jour : Ref Zher - Biol., No 10, 1958, 44394

fluctuations of the upper and lower soil layers in different locations in the Garden. It also gives a list of the species of wild growing plants suitable for use as decorative plants. The article also presents their natural habitat and their light and soil requirements. ...

N.S. Lebedeva

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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5

BOJANOWICZ, Kazimierz; GRABARA, Longin; SZCZYPIOR, Alicja

Studies on the chest-extremity index during life with special
reference to adolescence. Pol. tyg. lek. 18 no.52:1952-1956
23 D '63.

1. Z I Kliniki Chorob Wewnętrznych Akademii Medycznej w Łodzi
(kierownik: prof. dr nauk med. J.W. Grott).

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516430007-5"

GRABARCHUK, N.; GARBER, T.

Improving the control system on the two-motor clamshell winch of
the "Kaier" gantry crane. Mor. flot 18 no.5:18 My '58. (MIRA 11:6)

1. Nachal'ni otdela mekhanizatsii Odesskogo porta (for Grabarchuk).
2. Starshiy inzhener-elektrik Odesskogo porta (for Garber).
(Cranes, derricks, etc.)

FILINOW, M.W.; GRABARCYK, C.

Approximate computation methods of the motion gas-liquid interface
while considering the elasticity of liquid and strata. Rozpr
inz PAN 13 no.1:109-115 '65.

1. Submitted April 15, 1964.